Frog Diversity

Week 3

Words of the day

- Endo (prefix) within, inside
- Periople thin outer layer of hoof of equines
- Pendent hanging down
- Mala cheek, in vertebrates, and corresponding region of head in invertebrates
- Loma thin membranous flap forming a fringe round an opening

Frog of the Week

- Genus Ceratophrys
- 8 species in genus
- Rainforests of South America
- Pacman frogs
- https://www.youtube.com/watc h?v=6AILF4Spwpo



Frog Facts

- Frogs usually eat their dead skin after shedding it
- One gram of toxin produced by the skin of the golden poison dart frog could kill 100,000 people
- Weird group names: murder of crows, a parliament of owls, and an army of frogs
- Most frogs have teeth only on the upper jaw
- The biggest frog in the world is the Goliath frog, can be up to a foot in length and weigh more than half a stone

Semester Ahead

- Salamanders and caecilians (Week of 28th)
- Lizards and snakes (Week of 5th)
- Exam 1 for class October 2nd

General Visible Characteristics

- No distinct neck region.
- Trunk shortened.
- Adults without tail.
- Hindlimbs w/ 4 segments.
- Hindlimbs longer than forelimbs.
- Eyes well developed.
- Tympanic membrane usually present



Agalychnis callidryas Kim Taylor (Ranger Rick 1991)

No distinct neck region

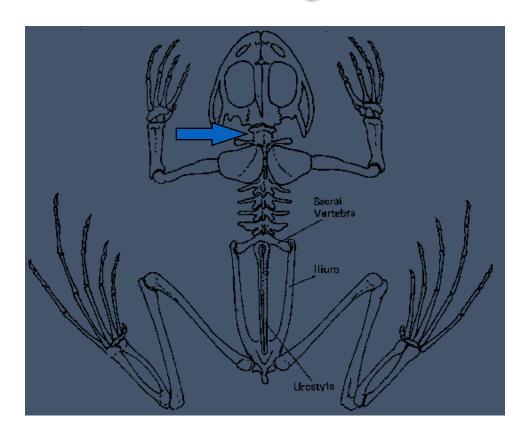


Figure 3-16. Page 65. Pough et al. 2001

Trunk shortened (5-9 presacral vertebrae)

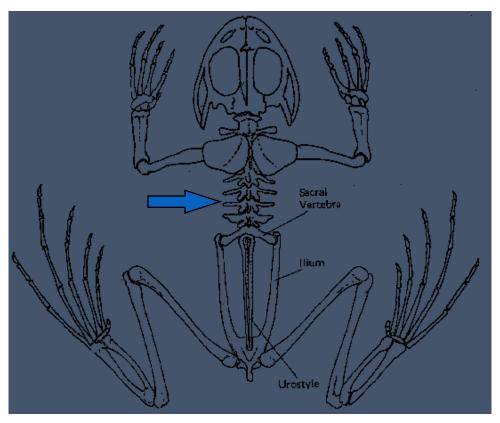


Figure 3-16. Page 65. Pough et al. 2001

Postsacral vertebrae fused to form urostyle

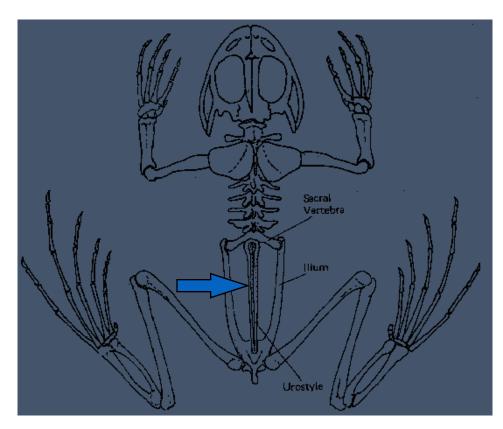


Figure 3-16. Page 65. Pough et al. 2001

Adult lacks a tail

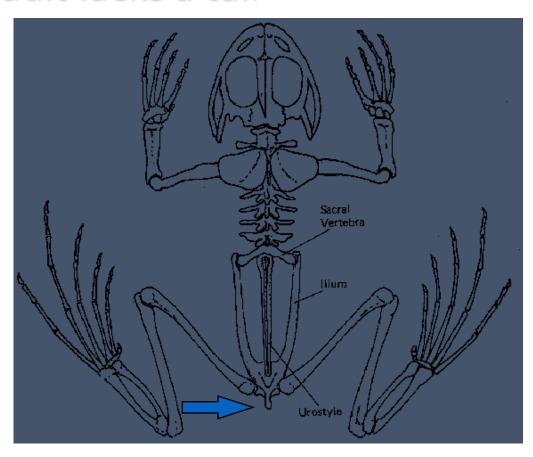


Figure 3-16. Page 65. Pough et al. 2001.

Iliac portion of pelvic girdle elongated

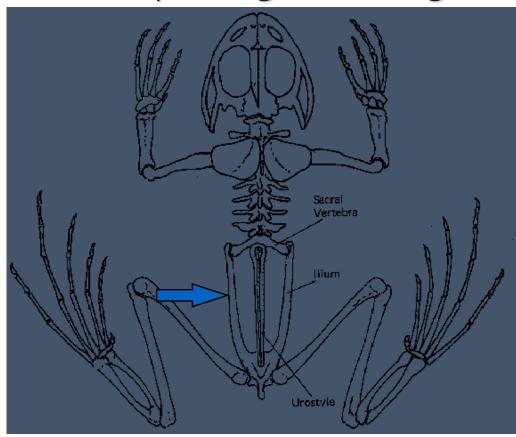


Figure 3-16. Page 65. Pough et al. 2001.

Hindlimbs with four segments; much longer than forelimb

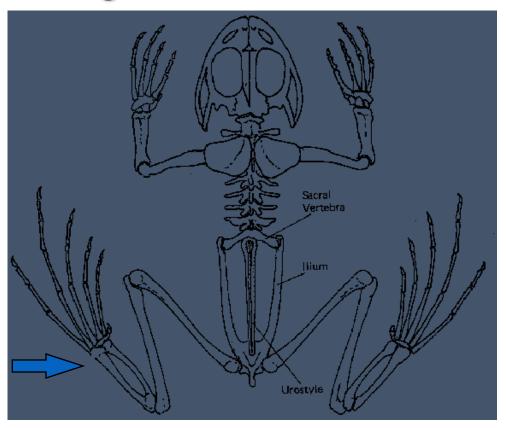


Figure 3-16. Page 65. Pough et al. 2001

Radius fused to ulna; tibia fused with fibula

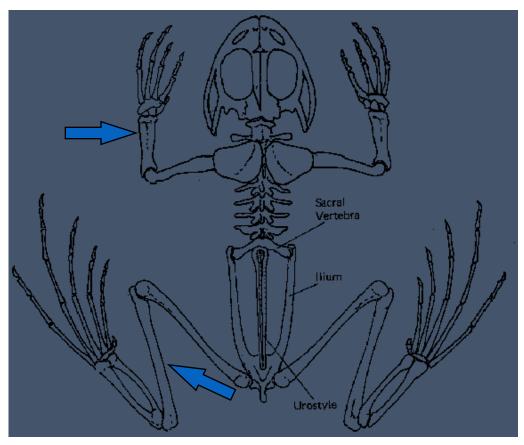
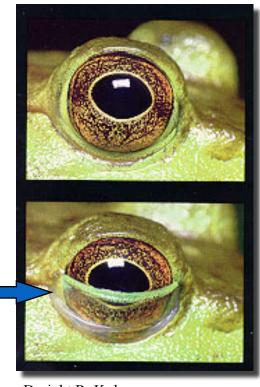


Figure 3-16. Page 65. Pough et al. 2001

Eyes well developed; movable eyelid

Nictitating membrane

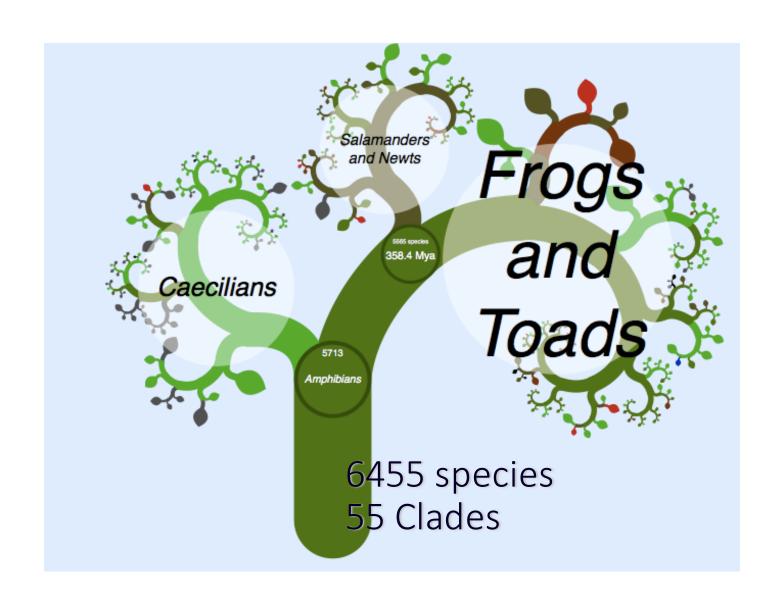


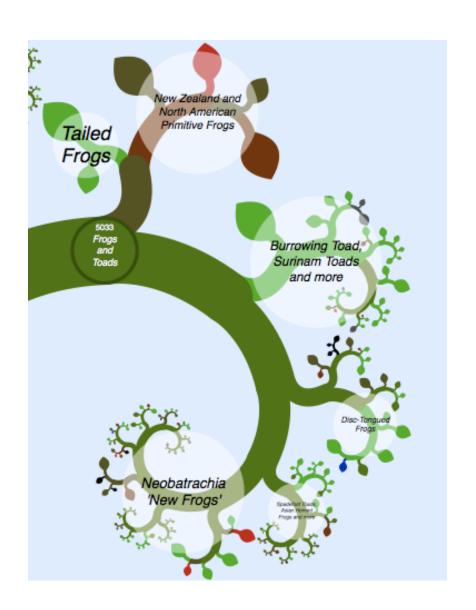
Dwight R. Kuhn (Ranger Rick 1991)

Global Distribution of Anura



Page 36, D. M. Dennis and M. R. Long, T. R. Halliday and Kraig Adler, 1987, The Encyclopaedia of Reptiles and Amphibians



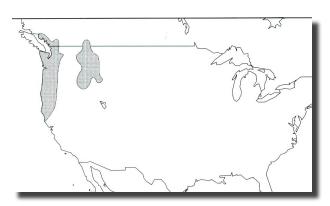


*Ascaphidae Tailed frogs

1 Genus 2 Species



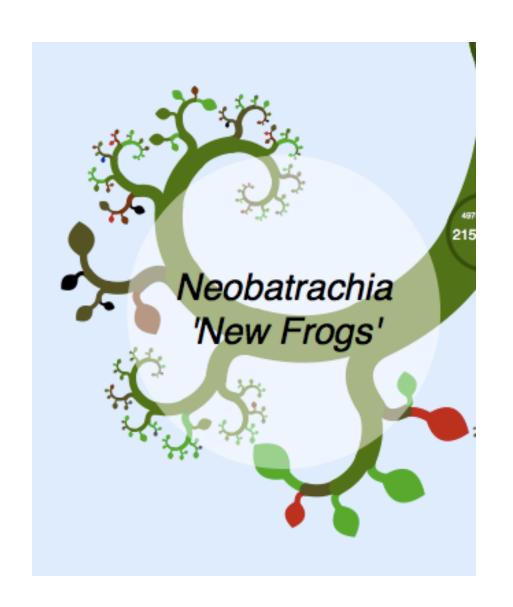


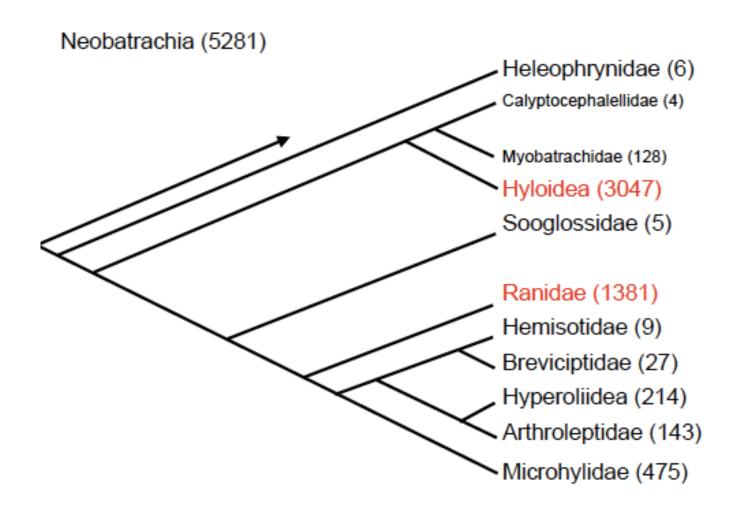


- Most basal frog (Jurassic)
- Internal fertilization (tail extension of cloaca)
- Require cold, swift streams
- Larvae modified oral discs



45 Families





Differences

- Determine the family of each frog (Write the station number with species name)
- Write a paragraph (6ish sentences) that describes the key differences between the families directly above and below on the phylogeny
- Write a paragraph (6ish sentences) about one of the families not represented today at the stations
- Question:
- What are three differences between frogs and toads and what are two similarities?

Next Week

- Turn in differences between families
- Turn in question
- There will be no quiz next week, study for the test
- Learn the family and species names of the stations for a future quiz
- We will be learning about Salamanders and caecilians